

Rehabilitation of Bridge 3-112

Seashore Hwy (SR 404) over Marshyhope Creek

(DeIDOT Contract T202407902)



Setting the Scene:

Bridge 3-112 is owned and maintained by DeIDOT and is located west of Greenwood and 1.5 miles east of the Maryland State Line, spanning the Marshyhope Creek. The existing structure consists of three spans of concrete box beam girders supporting a composite deck. The structure is supported by a set of piles (technically described as a 'bent') and a bent cap that supports the three spans between the concrete abutments and foundations.



Location of Bridge 3-112

BR 3-112, built in 1958, is 154 feet long and carries both directions of SR 404. This bridge carries 7,373 vehicles per day, 12% of which are trucks.

Why is the bridge being worked on?

This bridge right now is safe, but is due for repairs. DeIDOT inspects bridges every two years. In the last inspection in 2025, the inspectors noted the riding surface on the bridge deck is exhibiting extensive wear. The bridge deck underwent extensive rehabilitation in 2000. Since then, as portions of the bridge deck became damaged, small patch repairs were performed on the deck.

The bridge substructure, the part of the bridge that carries the weight of the bridge and everything passing on the bridge, was rated as "Fair" condition. A "Fair" condition rating is defined by Federal standard as "all primary structural elements are sound but may have minor section loss, cracking, spalling, or scour."



View of Concrete Delamination and Spalls in EB Lane



View of Spalls filled with Cold Patch Asphalt on the West Approach

See reverse side for additional information



How do we enhance the bridge deck?

Treatment of this deck will require chipping out the damaged concrete deck where there are known spalls and delamination. In some locations this will require removal of the full depth of the deck while others will need partial depth removal. New concrete pours for the affected area will restore a smooth riding surface that will last until a major rehabilitation of this bridge is performed after 2030.

The photos below show examples of a recent bridge deck repairs that used a rapid curing concrete mix to establish a smooth riding surface.



View of deck on a recently treated bridge with repaired patches and hot poured joint sealer to protect from further water intrusion



View of approach slab on a recently treated bridge that applied a rapid curing concrete

How will this impact my travel along SR 404 / Seashore Hwy and when is this taking place?

This project will be scheduled to begin mid- to late-September of 2026. Depending on weather conditions, this project likely will be completed within 4-6 weeks after starting.

The bridge will be reduced to one lane of operations during nighttime and daytime work periods. Flaggers will be stationed at each end of the work zone area to guide traffic through the one open lane. Other work zone protection equipment like truck mounted crash cushions and high visibility traffic drums will separate the travel lane from the work zone area.

Work zone lane restrictions will be in effect during daylight hours from 8:00 AM to 4:00 PM, and overnight hours from 8:00 PM to 6:00 AM. Temporary changeable message signs will be placed ahead of the construction zone to alert drivers about the one-lane operations.

Who can I contact with more questions, and how?

Any questions, comments or concerns should be directed to DeIDOT Community Relations at 302-760-2080 or you may contact us by e-mail at dotpublic@delaware.gov. Please include the project name or contract number when contacting us to expedite our response to any inquiry.